

Polytron 2

Polytron 2 is a universal transmitter for monitoring of over 200 different gases and oxygen. The transmitter uses industry standard two-wire loop powered technology and a state-of-the-art microprocessor to convert the signal from an electrochemical DrägerSensor® to an analog 4 to 20 mA and a digital HART® signal output.

The transmitter is designed for one-man calibration and offers a variety of diagnostics and self test features. The configuration and calibration of the transmitter is menu guided and easy to perform, using either the build in push buttons or a hand held terminal.

Features and Benefits:

- One universal transmitter for all electrochemical sensors
- Patented Plug & Play Sensor Technology
- Self-diagnostics of sensor and transmitter
- 4-20 mA outputs and digital HART® communication
- CENELEC, UL and CSA approvals



ST-16097

Technical Data

Type	Intrinsically safe transmitter for electrochemical sensors	
Gases and Ranges	Toxic gases and oxygen, ranges user adjustable (see sensor data sheet)	
Display	LCD display 2 lines, 20 characters Menu structure and message in real text	
Output	Analog:	4 to 20 mA, 2-wire
	Digital:	HART®
	Warning signal:	fault signal every 10 seconds for 1 second
	Maintenance signal:	4 mA ± 1 mA, 1 Hz modulation
	Fault signal:	< 3.2 mA
Power Supply	16.5 to 30 V DC; < 100 mW	
Ambient Conditions	(Transmitter only. For sensors see separate sensor data sheet)	
	Temperature: -40 to +65 °C / -40 to 150 °F	
	Humidity: 0 to 100% r.h., non condensing	
Enclosure	GRP, IP 67/NEMA 4; Pg 13.5 cable gland	
Size	130 mm x 210 mm x 100 mm/5.1" x 8.3" x 4" h x w x d	
Weight	approx. 1.8 kg/4.0 lbs.	
Approvals	UL Class I, Div 1, Group A, B, C, D and Class II Group E, F, G	
	CSA Class I, Div 1, Group A, B, C, D	
	CENELEC EEx ia IIC T6; T4: -40 to +65 °C, T6: -40 to +40 °C	
	CE marking: RFI compatibility (directive 89/336/EEC)	



Order List

Polytron 2	83 14 400
Polytron 2 Non Display	83 14 500
Polytron 2 Hand Held Terminal	83 13 602

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DrägerService

Dräger equipment must always be fully operational and safe. DrägerService offers a regular inspection service and is quickly available in the event of mal-function. Your equipment will be repaired and back in operation as quickly as possible. DrägerService facilitates the vital flow of information between client and manufacturer.

Dräger Expertise

Since 1889, Dräger has had an outstanding reputation for solving problems in the field of human breathing. Dräger has been deeply involved in the handling of gases, in particular hazard protection and the saving of life in medical and industrial emergencies. Many of the company's 8500 employees are active in research and innovation to ensure that the latest techniques and scientific advances are fully tested before their inclusion in new equipment.



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